

The 2014 Bi-annual Meeting of

WERT



**Waste-to-Energy Research
& Technology Council**

Advancing Sustainable Waste Management

COLUMBIA UNIVERSITY, NEW YORK CITY, OCTOBER 9 & 10, 2014

Location:

**Davis Auditorium, Schapiro Center for Engineering and Physical Science Research
Fu Foundation School of Engineering and Applied Science**

520 West 120th St. (between Broadway and Amsterdam Avenue), Manhattan, New York City

Campus maps can be found at the end of the program



New WTE plant, provided with artificial ski slope, in Copenhagen

WTERT 2014 Bi-annual Meeting, Day One: Thursday, October 9, 2014

Time	Speaker or <i>Event</i>	Subject	Speaker affiliation
8:30	Continental breakfast	Lobby of Davis Auditorium, Schapiro Research Center	Sponsored by RRT Design and Construction
9:00	Marco Castaldi	Welcome to WTERT 2014 Conference	Prof. Marco Castaldi, Chair, Materials and Energy Recovery (MER) Division of ASME
	Nickolas Themelis	Introduction to Program and WTERT 2012/2014 update	Chair, Global WTERT Council; Director, EEC, Columbia University
9:30	Paul Gilman	Covanta's Clean World Initiative	Senior Vice President and Chief Sustainability Officer, Covanta Energy
10:00	Bill Roberts	Wheelabrator 2010-2012 developments and vision for the future	VP Operations, Wheelabrator Technologies Inc.
10:30	Coffee break	Lobby of Davis Auditorium, Schapiro Research Center	
10:50	Kartik Chandran	Research interfaces in managing solid and liquid wastes and protecting water resources	Professor, Earth and Env'l Engineering, Director Earth Engineering Center, Columbia
11:20	Ralf Koralewska	E.U. advances on WTE metal recovery	Research Manager, Martin GmbH
11:45	Marco Castaldi	Research at Earth Engineering Center, CCNY: Materials and energy recovery from waste and biomass	Associate Professor, Chem. Eng., City College of New York; Director Earth Engineering Center/CCNY
12:10	Demetra Tsiamis	Syngas from non-recycled plastics (NRP) - The Enerkem Process	Research Associate, Earth Engineering Center, City College of New York
12:20	Claudine Ellyin	Overview and performance of the SWPS wet gasification process	R&D Manager, Sustainable Waste Power Systems

12:30 – 14:00 pm Lunch - Amsterdam Café, on Amsterdam Ave. between 119th and 120th Streets (see map below)

Sponsored by [Wheelabrator Technologies](#)

14:00	Peter Chromec	Comparison of building the Jabalpur WTE plant in India with recent E.U. projects	President, Hitachi Zosen Inova U.S.A.
14:20	Christian Felske	Advancing waste management in the City of Edmonton	Manager, Waste Management Centre, Edmonton, Alberta
14:40	John Abrashkin	A proven way to increase recycling: The Volume Based Waste Fee system	Earth Engineering Center, Columbia University
15:00	Roland G. Weippert	Recovery of precious metals from wet-discharged WtE ash	LAB Geodur Zug, Cham, Switzerland
15:20	Coffee break	Lobby of Davis Auditorium, Schapiro Research Center	
15:40	A.C. Bourtsalas	Innovative solutions for Waste-to-Energy bottom ash fines	WTERT-UK, Imperial College London, and Earth Engineering Center, Columbia University
16:00	Qunxing Huang and Andres Estrada	Rapid Growth of the CFB WTE technology in China	Associate Professor, Zhejiang University; Earth Engineering Center, Columbia University Andres Estrada, EEC-Columbia
16:20	Ljupka Arsova	Status of managing the organic wastes in the U.S.: The 2013 Columbia Survey and beyond	Gershman, Brickner & Bratton, Inc.
16:40	Nickolas Themelis and Yoonjung Seo	The WTERT 2014 Award Winner: For advance made in Sustainable Waste Management in the 21 st century	Earth Engineering Center, Columbia University
17:00	Poster presentation and reception	Lobby of Davis Auditorium, Schapiro Center	

18:30 – 21:00 WTERT Awards Dinner – Carleton Lounge, Engineering Building

(see map below; Dinner ticket required)

Presentation of 2014 WTERT Award to Republic of Korea;

Presentation of MER-ASME Award to Mr. John Klett of Covanta Energy (ret.)

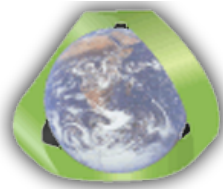
Dinner sponsored by Materials and Energy Recovery (MER) Division of [American Society of Mechanical Engineers \(ASME\)](#)

Day Two: Friday, October 10, 2014

Time	Speakers name	Subject	Speaker affiliation
8:30	<i>Continental breakfast</i>	Lobby of Davis Auditorium, Schapiro Research Center	Sponsored by HDR Inc.
9:00	Darlene Schuster	Common interest: WTE, WTERT, and AIChE	Executive Director, Institute for Sustainability, American Institute of Chemical Engineers
9:15	Ted Michaels	Opportunities to Deploy WTE and Reduce GHG Emissions through USEPA's Clean Power Plan	President, Energy Recovery Council, U.S.
9:35	Craig Cookson	The ACC campaign for increasing energy recovery from Non-Recycled Plastics (NRP)	Director, Sustainability Group, Plastics Division, American Chemistry Council
9:55	Lenny van Klink	The dynamics of waste movement within the E.U.	VP, Rebel Group, NL and U.S.
10:15	A-H. Alissa Park	Sustainable energy conversion pathways for solid wastes	Lenfest Associate Professor; Interim Director, Lenfest Center for Sustainable Energy, Columbia University
10:40	<i>Coffee break</i>	Lobby of Davis Auditorium	
11:00	Nickolas Themelis	Energy recovery from wastes in the U.S. cement industry	Professor, Earth & Env'l Eng., Columbia University
11:15	Henri Dwyer	Summary of study of all sources of dioxin emissions in the U.S.	Earth Engineering Center, Columbia University
11:30	Panel discussion, and contributions from other participants	Given that WTE is environmentally better than LF: What is impeding its implementation in E.U. and the Americas?	Profs. Stefano Consonni (U. Milano and WTERT-Italy), Marco Castaldi (CCNY), Nickolas Themelis (Columbia); others
12:30	End of Conference		

Notes

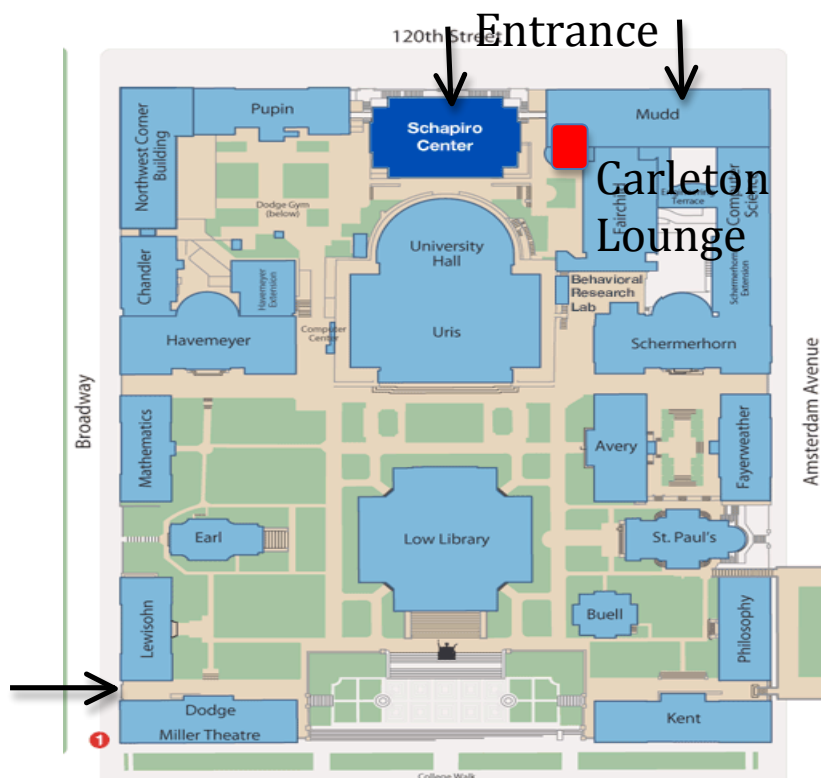
- **On Wed. October 8, a visit of the Union County, NJ, WTE plant of Covanta Energy is organized by the Materials and Energy Recovery Division of ASME, Prof. Marco Castaldi, Chair. If you are interested in attending please send e-mail to mcastaldi@che.ccny.cuny.edu.**
- **At the end of the Conference (12.30 PM Friday, October 10), there will be a lunch meeting of the WTERT Advisory Board, to be hosted by Prof. Marco Castaldi, at the Manhattan campus of City College of New York.**



EARTH ENGINEERING CENTER AT COLUMBIA UNIVERSITY AND AT CITY COLLEGE OF

Columbia Morningside Heights Campus Map

If you come by subway (No.1 Uptown), get off at 116 - Columbia station and enter campus through Columbia gate on Broadway and 116th Street. If you come from 120th Street, enter Schapiro Research Center (dark blue) and take elevator to 4th floor (campus level) where Davis Auditorium is located. Carleton Lounge is also on campus level, in Mudd Hall (Engineering), the building just to the right of Schapiro Building.



Parking: You may park on the street or use one of the [local parking garages](#), within a 5-10 minute walk from Schapiro Center. Street parking may be found in the neighborhood (RARE!). The following parking garages are located in the Columbia neighborhood:

- Riverside Church 120th St. between Riverside Drive & Claremont Avenue (212) 870-6736
- Hospital Parking 114th St. between Broadway & Amsterdam Avenue (212) 523-1051
- GGMC 122th St. between Broadway & Amsterdam Avenue (212) 865-1754
- Morningside Garage Broadway at 124th Street (212) 864-9877
- Park Yorkshire 108th St. between Columbus & Amsterdam Avenue (212) 865-2314